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### NOTICE OF ALLOWANCE AND FEE(S) DUE

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07/02/2010

MERCHANT & GOULD SCIENTIFIC ATLANTA, A CISCO COMPANY P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903 EXAMINER

MENDOZA, JUNIOR O

ART UNIT

PAPER NUMBER

2423

DATE MAILED: 07/02/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,037	09/15/2003	Ajith N. Nair	0374.0007US01/CPOL968414	4 2530

TITLE OF INVENTION: RESOURCE-ADAPTIVE MANAGEMENT OF VIDEO STORAGE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/04/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

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		ock 1 for any change of address)		Feet.	Transmittal This ce	rtificate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
62658	7590 07/02	/2010			Certific	eate of Mailing or Transi	mission
P.O. BOX 2903	ΓLANTA, A CISCO	O COMPANY		I her State addre trans	eby certify that this F s Postal Service with essed to the Mail St mitted to the USPTO	ee(s) Transmittal is being sufficient postage for firs op ISSUE FEE address (571) 273-2885, on the d	deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
MINNEAPOLIS	S, MN 55402-0903						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	AT	TORNEY DOCKET NO.	CONFIRMATION NO.
10/663,037	09/15/2003		Ajith N. Nair		60374	1.0007US01/CPOL968414	4 2530
TLE OF INVENTION	: RESOURCE-ADAPTI	VE MANAGEMENT O	F VIDEO STORAGE				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE FE	E TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0	\$1810	10/04/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	;			
MENDOZA	, JUNIOR O	2423	725-142000				
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	ing on the patent front page, list hes of up to 3 registered patent attorneys IR, alternatively, he of a single firm (having as a member a attorney or agent) and the names of up to I patent attorneys or agents. If no name is ame will be printed.			
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the Ta substitute for filing (B) RESIDENCE: (C	he pa g an a	tent. If an assignee i ssignment. and STATE OR COU	NTRY)	ocument has been filed for
a. The following fee(s):						reviously paid issue fee	
☐ Issue Fee			A check is enclos	ed.			snown above)
☐ Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
□ Advance Order -	# of Copies		The Director is he overpayment, to I	reby Depos	authorized to charge t it Account Number _	he required fee(s), any de (enclose a	ficiency, or credit any n extra copy of this form).
	<b>tus</b> (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no	long	er claiming SMALL I	ENTITY status. See 37 CF	FR 1.27(g)(2).
OTE: The Issue Fee an terest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan th	e applicant; a register	ed attorney or agent; or th	e assignee or other party in
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,037	09/15/2003	Ajith N. Nair 60	0374.0007US01/CPOL9684	14 2530
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MERCHANT &	GOULD	MENDOZA	, JUNIOR O	
	LANTA, A CISCO CO	ART UNIT	PAPER NUMBER	
P.O. BOX 2903 MINNEAPOLIS, 1	MN 55402-0903	2423 DATE MAILED: 07/02/201	0	

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 987 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 987 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/663,037	NAIR ET AL.				
Notice of Allowability	Examiner	Art Unit				
	JUNIOR O. MENDOZA	2423				
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.3131.  This communication is responsive to 04/19/2010.  The allowed claim(s) is/are 1,2,5,7-9,12,17-19,21-25,41-47.  Acknowledgment is made of a claim for foreign priority under the communication of the:  Certified copies of the priority documents have a communication appear.	ears on the cover sheet wite (OR REMAINS) CLOSED in or other appropriate commula (GHTS). This application is seand MPEP 1308.  2,51-61 and 63-68.  ander 35 U.S.C. § 119(a)-(d) contact the contact th	h the correspondence address this application. If not included nication will be mailed in due course ubject to withdrawal from issue at th	e initiative			
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application from	m the			
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE				
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review	( PTO-948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date						
<ul> <li>(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> </ul>						
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			e			
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./I 7. ☑ Examiner's A 8. ☑ Examiner's S 9. ☐ Other		<b>;</b>			
	/Andrew Y Koei	•				
	Supervisory Pat	ent Examiner, Art Unit 2423				

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### **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Rodack on 06/25/2010.

2. The application has been amended as follows:

In **claim 23**, line 10, "sufficiency of processing resources." has been changed to -- sufficiency of processing resources;

further comprising a multiplexer, wherein the encoder is further configured to:

receive, in parallel to the plural digitized pictures, second plural digitized pictures
of a second picture sequence and compressed pictures, the received pictures
corresponding to a first format; and

further compress, in parallel to the plural digitized pictures of the picture sequence, the second plural digitized pictures of the second picture sequence to produce, in association with the multiplexer, a transport stream comprising a multiplex

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of the video stream and the compressed second plural digitized pictures, the transport stream pictures corresponding to a second format different than the first.--

Cancel claim 62.

In **claim 63**, line 1, "The STT of claim 62" has been changed to - - The STT of claim 23 - -.

In **claim 65**, line 1, "The STT of claim 62" has been changed to - - The STT of claim 23 - -.

In **claim 68**, line 1, "The STT of claim 62" has been changed to - - The STT of claim 23 - -.

# Allowable Subject Matter

3. Claims 1, 2, 5, 7-9, 12, 17-19, 21-25, 41-47, 51-61 and 63-68 are allowed.

Regarding **claim 1**, the applicant's arguments filed on the appeal brief of 04/19/2010 are persuasive. Furthermore, the examiner notes that the multiplexing and demultiplexing scheme of Artigalas et al. (Pub No US 2001/0014206) is implemented by a magnetic recording head composed of a matrix which physically multiplexes data on

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the recording tape in parallel locations of the recording tape, which is different then parallel encoding and multiplexing video into a transport stream (i.e. MPEG-2).

Hence, prior art of record fails to show or reasonably suggest encoding in parallel plural digitized pictures of a first picture sequence corresponding to a first video stream of the plural received video streams and a second picture sequence corresponding to a second video stream of the plural received video streams to produce a transport stream comprising a multiplex of a corresponding first compressed video stream and a second compressed video stream, respectively, the first and second video streams having the first format and the first and second compressed video streams having the second format, in combination with all the other limitations presented in claim 1. Therefore, independent claim 1 is allowable.

Regarding dependent claims 2, 5, 7-9, 12, 17-19, 21, 22 and 56 - 61, they are also held allowable since they depend from allowable claim 1.

Regarding **claim 23**, the applicant's arguments filed on the appeal brief of 04/19/2010 are persuasive. Furthermore, the examiner notes that the multiplexing and demultiplexing scheme of Artigalas et al. (Pub No US 2001/0014206) is implemented by a magnetic recording head composed of a matrix which physically multiplexes data on

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the recording tape in parallel locations of the recording tape, which is different then parallel encoding and multiplexing video into a transport stream (i.e. MPEG-2).

Hence, prior art of record fails to show or reasonably suggest a multiplexer, wherein the encoder is further configured to: receive, in parallel to the plural digitized pictures, second plural digitized pictures of a second picture sequence and compressed pictures, the received pictures corresponding to a first format; and further compress, in parallel to the plural digitized pictures of the picture sequence, the second plural digitized pictures of the second picture sequence to produce, in association with the multiplexer, a transport stream comprising a multiplex of the video stream and the compressed second plural digitized pictures, the transport stream pictures corresponding to a second format different than the first, in combination with all the other limitations presented in claim 23. Therefore, independent claim 23 is allowable.

Regarding dependent claims 24, 25, 41-47, 51-55 and 63-68, they are also held allowable since they depend from allowable claim 23.

#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUNIOR O. MENDOZA whose telephone number is (571)270-3573. The examiner can normally be reached on Monday - Friday 9am - 5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Koenig can be reached on (571)272-7296. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Junior O Mendoza Examiner Art Unit 2423

/J. O. M./ June 25, 2010